

# 野生型发根农杆菌K599的解毒 Disarming of Wild Type *Agrobacterium rhizogenes* K599

向太和<sup>1</sup>, 杨剑波<sup>1</sup>, David A. Somers<sup>2</sup> XIANG Tai-he<sup>1</sup>, YANG Jian-bo<sup>1</sup>, David A. Somers<sup>2</sup>

1.安徽省农业科学院水稻研究所、农业部水稻遗传育种重点开放实验室合肥230031 2.Department of Agronomy and Plant Genetics, University of Minnesota, St. Paul, MN 55108, USA 1. Rice Research Institute, Key Laboratory of Rice Genetics and Breeding of Agricultural Ministry, Anhui Academy of Agricultural Sciences, Hefei 230031, China;

收稿日期 修回日期 网络版发布日期 接受日期

**摘要** 本研究利用DNA重组技术构建了来源于质粒pJBJ106、pBluescriptSK(+)和pUCD800的新质粒pXT3sacB, 利用该质粒通过同源重组切除了野生型发根农杆菌K599中Ri质粒的T-DNA。解毒后的K599获得了氨苄/羧苄青霉素抗性和10%蔗糖抑制生长的选择标记。解毒后的K599菌株可能对农杆菌转基因技术是有益的。

**Abstract:** In this study, the new plasmid pXT3 sacB was constructed from pJBJ106, pBluescript SK(+) and pUCD800. The wild type T-DNA of *Agrobacterium rhizogenes* K599 which induces hair root was deleted with pXT3sacB by homologous recombinant. A disarming K599 contains selective markers of resistance to ampicillin/carbeneillin and the growth inhibition by 10% sucrose. It could be a novel useful strain for gene transfer via *Agrobacterium*-mediated method.

**关键词** [发根农杆菌K599](#) [解毒](#) **Key words** [Agrobacterium rhizogenes K599](#) [disarming](#)

分类号

## 扩展功能

### 本文信息

- ▶ [Supporting info](#)
- ▶ [PDF\(0KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [参考文献](#)

### 服务与反馈

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [加入引用管理器](#)

### 复制索引

- ▶ [Email Alert](#)
- ▶ [文章反馈](#)

### 浏览反馈信息

### 相关信息

- ▶ [本刊中 包含“发根农杆菌K599”的相关文章](#)
- ▶ [本文作者相关文章](#)

- [向太和](#)
- [杨剑波](#)
- [David ASomersXIANG Tai-heI](#)
- [YANG Jian-bo](#)
- [David ASomers](#)

## Abstract

## Key words

DOI:

通讯作者